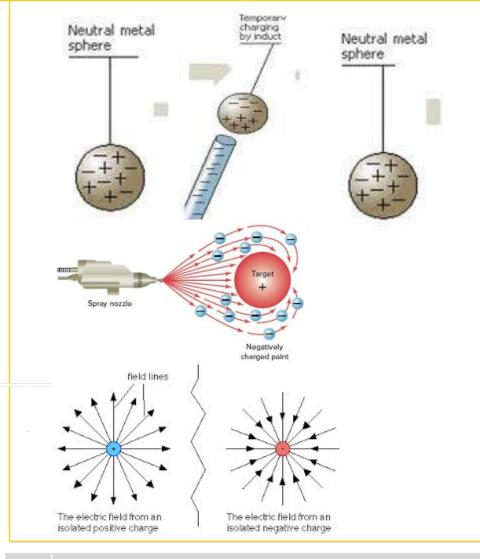
1	Materials that conduct electricity poorly or not at all are called <b>insulators</b>
2	Materials that conduct electricity are called <b>conductors</b>
3	Insulators are able to collect charge as the charged particles cannot flow through them into other materials
	Plastics such as acetate and polythene are able tocollectcharge because
4	they are insulators.
	Like charges will repel one another
5	Opposite charges will attract one another
6	You can charge an objectby friction. This transfers electrons to one object
7	and leaves one or both objects involved with an overall charge (positive or
	negative)
8	When chargingby friction it is only electrons that are transferred (negative charge).
	Chargingby induction occurs when an object with an overall charge comes
9	into close contact with a neutral object and causes an attraction of
	oppositely charged particles.
	When thereis a build up of charge, electrons flow in whichever direction
10	removes the excess charge to become 'discharged' or 'earthed'. This may sometimes cause a spark.
	Static electricity can be dangerousif too much charge builds up near
11	flammable materials due to the spark.
	Thismeans objects in use around flammable materials need to be earthed
12	e.g.petrol pumps
	Staticelectricity can be used to distribute particles more evenly and this is
	used in paint sprayers for bikes and cars as well as crop sprayers
13	A charged object has a force field around it called an electric or electrostatic
	field. We can draw diagrams to represent the charge and strength of the fields.
14	neius.



- The field is strongestwhere the lines are closer together and weakest where the lines are furthest apart. The field lines never cross.
- We usearrows to show the direction a positively charged particle would move within the electrical field.